FEE: SEE CURRENT FEE SCHEDULE

MONTAGUE HEALTH DEPARTMENT

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Name _____ **Date** _____

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DISPOSAL WORKS INSTALLERS EXAM

This examination is based on the **Massachusetts State Environmental Code: Title 5: Minimum Requirements for the Subsurface Disposal of Sanitary Sewage**.

- **THIS EXAM CONSISTS OF 25 QUESTIONS THERE IS NO PARTIAL CREDIT – EACH QUESTION IS WORTH 4 POINTS.**

General Requirements

15.020 – 15.021

1. All systems for which a Disposal Works Construction Permit has been issued shall be completed, within _____ years of issuance of the permit.

2. Prior to the issuance of a Certificate of Compliance the system _____ ***and the system designer*** must certify, in writing, on a form provided by the Department of Environmental Protection, that the system has been constructed in compliance with 310 CMR 15:000.

15.021

3. Subsurface components of a system shall not be backfilled or otherwise concealed from view until a final inspection has been conducted by the approving authority. The designer shall inspect the construction after the initial excavation, prior to backfilling and during _____.

15.221

4. All piping shall be a minimum of schedule of SDR 35 PVC in areas not subject to automobile or heavy traffic. Schedule _____ PVC shall be in areas where traffic is anticipated.

15.211

5. What is the **minimum distance** required for a surface water supply (reservoirs and impoundments) to be located from the:

   - Septic tank:_____ feet
   - Leaching facility:_____ feet

6. What is the **minimum distance** required for a private well to be located from the: {Montague requires 150-foot separation for perc's < 2MPI}

   - Septic tank:_____ feet
   - Leaching facility:_____ feet

7. No system shall be constructed within a Zone I of a Public Water supply well or wellfield.

   TRUE OR FALSE (circle one)

15.240

8. All soil absorption systems shall have at least one _____ port. Consisting of a perforated inch pipe placed vertically down into the stone to the naturally occurring soil or sand below the stone.

9. What is the minimum distance required for a septic tank and leaching facility to be located from **tributaries to surface water supplies**:

   - septic tank_____ feet
   - leaching facility _____ feet

15.212

10. What is the minimum distance allowed between the bottom of the stone lining the leaching facility and the high ground water elevation?

    - _____ feet in soils that perc at more than two minutes per inch
    - _____ feet in soils that perc at two minutes or less per inch

15.232

11. The invert elevation of all outlets of the distribution box must be the same and must be at least _____ inches below the inlet.

12. The minimum inside dimension of a D-Box must be at least _____ inches.

13. What is the minimum distance that all pipes leaving the distribution box must be kept level? _____ feet

15.221

14. Distribution Boxes, septic tanks, pump chambers and grease traps set on native ground (not fill) must be set on a inch base of stone.

15.240

15. On site subsurface sewage disposal systems must have at least _____ feet of naturally occurring pervious soil below the entire area.

15.247

16. A minimum of a _____ inch layer of **<u>double washed</u>** stone ranging in size from _____ inch to _____ inch diameter shall cover the base stones.

15.251

17. The minimum separation between any two trenches shall be _____ times the effective width or depth of each trench, whichever is greater.

15.240

18. Final cover above the soil absorption system shall be graded to reduce infiltration of surface water and minimize erosion. Finish grade shall have a minimum slope of_____feet per foot.

15.353

19. All emergency repairs other than pumping shall be followed within _____ days of the repair by an application of a Disposal System Construction Permit, local upgrade, approval or an application for a variance.

15.221

20. The top of all system components including the septic tank, distribution box or dosing chamber and soil absorption system shall be installed no more than _____ inches below finish grade.

15. 227

21. Placement and construction of inlet and outlet tees shall be of cast iron, schedule 40 PVC, or cast in place concrete and shall extend a minimum of _____ inches **above the flow** line of the septic tank and be on the center line of the septic tank located directly under the clean out manhole.

22. There shall be an air space of at least _____ inches between the tops of the tees and the inside of the tank cover.

23. The inlet tee shall extend a minimum of _____inches below the flow line.

15.248

24. Systems for **new construction** or increased flow designed and approved in accordance with 310 CMR 15.000 shall include a reserve area sufficient to replace the _____ absorption system.

15.249

25. System designs employing equipment designed to distribute effluent without the use of aggregate (gravelless systems) are prohibited except in accordance with the procedures set forth at 310 CMR 15.280 through 15.288.

Circle answer.

True False